SE-1200 Pro

Electrocardiograph

Version 1.0

Technical Specifications

Physical Specifications

Dimensions

298mm×209mm×103mm

Weight

3kg (Excluding recorder paper and battery)

Display

8.0" LCD full-touch screen, at a resolution of 1280x800

Power Supply

Mains Supply

Operating Voltage = AC 100V-240V
Operating Frequency = 50Hz/60Hz
Output Power：19V 2.52A

Internal Li-ion Battery Pack

Rated voltage = 14.8V
Rated capacity = 2,500 m Ah
Necessary Charge time: ≤3 hours

Recording

Recorder

Thermal dot-matrix recorder

Printing Density:

8 dots per mm / 200 dots per inch (amplitude axes)
40 dots per mm / 1000 dots per inch (time axes, @ 25 mm/s)

Recorder Paper:

Folded thermal paper: 210 mm×140 mm

Paper Speed:

5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s (±3%)

External Printer:

HP M401, HP 1106/1020P, HP LaserJet P2035, HP Laser jet Pro M403D, HP LaserJet pro M202DW, HP Desk Jet 4729, HP Desk Jet 3638, HP1112, HP2132

HR Recognition

HR Range

30 BPM ~300 BPM

Accuracy

±1 BPM

EDAN

ECG Unit

Leads:
9 or 12 standard leads

Acquisition Mode:
9 or 12 leads acquisition simultaneously

A/D Converter:
24bits

Resolution:
0.1192uV/LSB

Time Constant:
≥5s

Frequency Response:
0.01Hz ~ 350Hz

Sampling Frequency:
64,000 Hz

Gain:
1.25, 2.5, 5, 10, 20, 10/5, AGC (mm/mV) (±5%)

Input Impedance:
≥100MΩ (10Hz)

Input Circuit Current:
≤0.01μA

Input Voltage Range:
<±5mVp-p

Calibration Voltage:
1mV±1%

CMRR:
≥140dB (AC on)
≥123dB (AC off)

Pacemaker

Sampling Frequency
80,000 Hz, Rhythm Lead

Amplitude:
±500μV to ±700 mV

Width:
30μs to 2.0 ms

Filter

AC Filter:
Off/50Hz/60Hz

DFT Filter:
0.01Hz/0.05Hz/0.32Hz/0.67Hz

EMG Filter:
Off/25Hz/35Hz/45Hz

LOWPASS Filter:
350Hz/300Hz/270Hz/150Hz/100Hz/75Hz

Data Transmission

Report Format:
DAT, SCP, FDA-XML, DICOM (Encapsulated PDF), DICOM (ECG Waveform), PDF, JPG, BMP, PNG, and TIFF

Data Transmission:
Wi-Fi, Ethernet, 4G network

Data Management System:
SE-1515 Data Management System, bi-directional communication

Communication protocol:
FTP/DICOM/EDAN proprietary protocol

EDAN

Wi-Fi

Transmitting Frequency:

2.4GHz & 5GHz

Frequency Band:

2.4GHz and 5 GHz
241 2 MHz – 2472 MHz (2.4GHz)
51 50 MHz – 5850 MHz (5GHz)

Modulation Type:

DBPSK/DQPSK/CCK
BPSK/QPSK/1
6QAM/64QAM,GFSK,π/4-DQPSK,8-DPSK

Transmitting Power:

≤1 7dBm (2.4GHz)
≤1 7dBm (5GHz)

4G (Option)

Bands

FDD LTE: Band 1 , Band 2, Band 3, Band 4, Band 5, Band 7, Band 8, Band 3, Band 1 2, Band 1 7, Band 20, all bands with diversity

TDD LTE: Band 34, Band 38, Band 39, Band 40, Band 41 , all bands with diversity

Safety Specifications

Comply with:

IEC 60601-1:2005/A1:2012
EN 60601-1:2006/A1:2013
IEC 60601-1-2:2014
EN 60601-1-2:2015
IEC/EN 60601-2-25

Anti-electric-shock type:

Class I with internal power supply

Patient Leakage Current:

NC <10μA (AC) / <10μA (DC)
SFC <50μA (AC) / <50μA (DC)

Patient Auxiliary Current

NC <10μA (AC) / <10μA (DC)
SFC <50μA (AC) / <50μA (DC)

Anti-electric-shock degree:

CF type with defibrillation-proof

Environment Specifications

Temperature:

Transport & Storage: -20ºC (-4ºF) ~ +55ºC (+131ºF)
Working: +5ºC (+41ºF) ~ +40ºC (+104ºF)

Relative Humidity:

Transport & Storage: 15%~93%RH Non-Condensing
Working: 15%~93%RH Non-Condensing

Atmospheric Pressure:

Transport & Storage: 70kPa ~106kPa
Working: 70kPa ~106kPa